



FRONT



SIDE 1



SIDE 2



SIDE 3



2ND FLOOR WINDOW/WALL DEMO FOR BRIDGE

BUILDING COVERAGE

LOT SIZE: 12,710 S.F.	EXISTING	NEW / ADDITION
a. 1st Floor Conditioned Area	1829 S.F.	616 S.F.
b. 2nd Floor Conditioned Area	975 S.F.	667 S.F.
c. 3rd Floor Conditioned Area	N/A	N/A
d. Basement	N/A	N/A
e. Garage / Carport	N/A	N/A
Attached Garage (Unit B)	N/A	N/A
Attached Carport (Unit A)	N/A	N/A
f. Wood Decks (must be counted at 100%)	N/A	N/A
g. Brezeways	N/A	N/A
h. Covered Patios	N/A	N/A
i. Covered Porches	310	N/A
j. Balconies	N/A	58+57=115
k. Swimming Pool (surface area)	N/A	N/A
l. Other Building or Covered Areas (if applicable)	N/A	N/A
Specify:	N/A	N/A
TOTAL BUILDING AREA (add a through l)	3,114 S.F.	1,396 S.F.
TOTAL BUILDING COVERAGE ON LOT	2,755 S.F.	2,755 S.F.
	21.7% OF LOT	

IMPERVIOUS COVERAGE

a. Total Building Coverage on Lot (see above)	2,755 S.F.
b. Driveway Area on Private Property	1,225 S.F.
c. Sidewalk / Walkways on Private Property	302 S.F.
d. Uncovered Patios	19 S.F.
e. Uncovered Wood Decks (may be counted at 50%)	N/A
f. Air-Conditioner Pad(s)	18 S.F.
g. Concrete Decks	N/A
h. Other: Concrete Steps	N/A
TOTAL IMPERVIOUS COVERAGE (add a through h)	4,319 S.F.
	33.9% of lot

GROSS FLOOR AREA AND FLOOR AREA RATIO

	EXISTING	NEW / ADDITION
I. 1st Floor Gross Area		
a. 1st Floor Area (excluding covered or uncovered finished ground-floor porches)	1829 S.F.	616 S.F.
b. 1st Floor Area with Ceiling Height Over 15 Feet	N/A	N/A
c. TOTAL (add a and b above)	1829 S.F.	616 S.F.
II. 2nd Floor Gross Area		
d. 2nd Floor Area (including all areas covered by a roof)	975 S.F.	667 S.F.
e. 2nd Floor Area with Ceiling Height Over 15 Feet	N/A	N/A
f. TOTAL (add d and e above)	975 S.F.	667 S.F.
III. 3rd Floor Gross Area		
g. 3rd Floor Area (including all areas covered by a roof)	N/A	N/A
h. 3rd Floor Area with Ceiling Height Over 15 Feet	N/A	N/A
i. TOTAL (add g and h above)	N/A	N/A
IV. Basement Gross Area		
j. Floor area outside footprint of first floor	N/A	N/A
V. Garage		
k. Attached (subtract 200 sq. ft. if used to meet the minimum parking requirement)	N/A	N/A
l. Detached (subtract 450 square feet if more than 10 feet from principle structure)	N/A	N/A
VI. Carport (Open on two or more sides without habitable space above it subtract 450 sq. ft.)	N/A	N/A
VII. TOTAL	2804 S.F.	1,283 S.F.
TOTAL GROSS FLOOR AREA		4,087 S.F.
GROSS AREA OF LOT		12,710 S.F.
FLOOR AREA RATIO (gross floor area/gross area of lot)		32.16%
		or 0.32 to 1.0

All structures etc. must maintain 7'5" clearance from AE energized power lines. Enforced by AE & NESC codes.

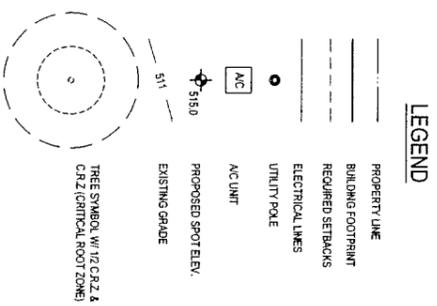
AE APPROVED
JUL 08 2015
 RLS 148-5

PREPARED

JUL 08 2015

AUSTIN WATER UTILITY
 CONSUMER SERVICE DIVISION - TAPS

- TREE LIST**
- A 14" PECAN
 - B 15" PECAN
 - C 14" PECAN
 - D 18" PECAN
 - E 15" PECAN
 - F 17" PECAN
 - G 17" PECAN
 - H 14" PECAN
 - I 53" OAK
 - J 34" OAK
 - K 40" OAK



ZONING: SF-3-NP

FRONT YARD SETBACK: 25 FEET

SIDE YARD SETBACK: 5 FEET

REAR YARD SETBACK: 10 FEET

MAXIMUM BUILDING COVERAGE: 40%

MAXIMUM IMPERVIOUS COVERAGE: 45%

EXISTING HOUSE

First Floor Conditioned Area: 1829 S.F.

Second Floor Conditioned Area: 975 S.F.

Total Conditioned Area: 2804 S.F.

ADDITION

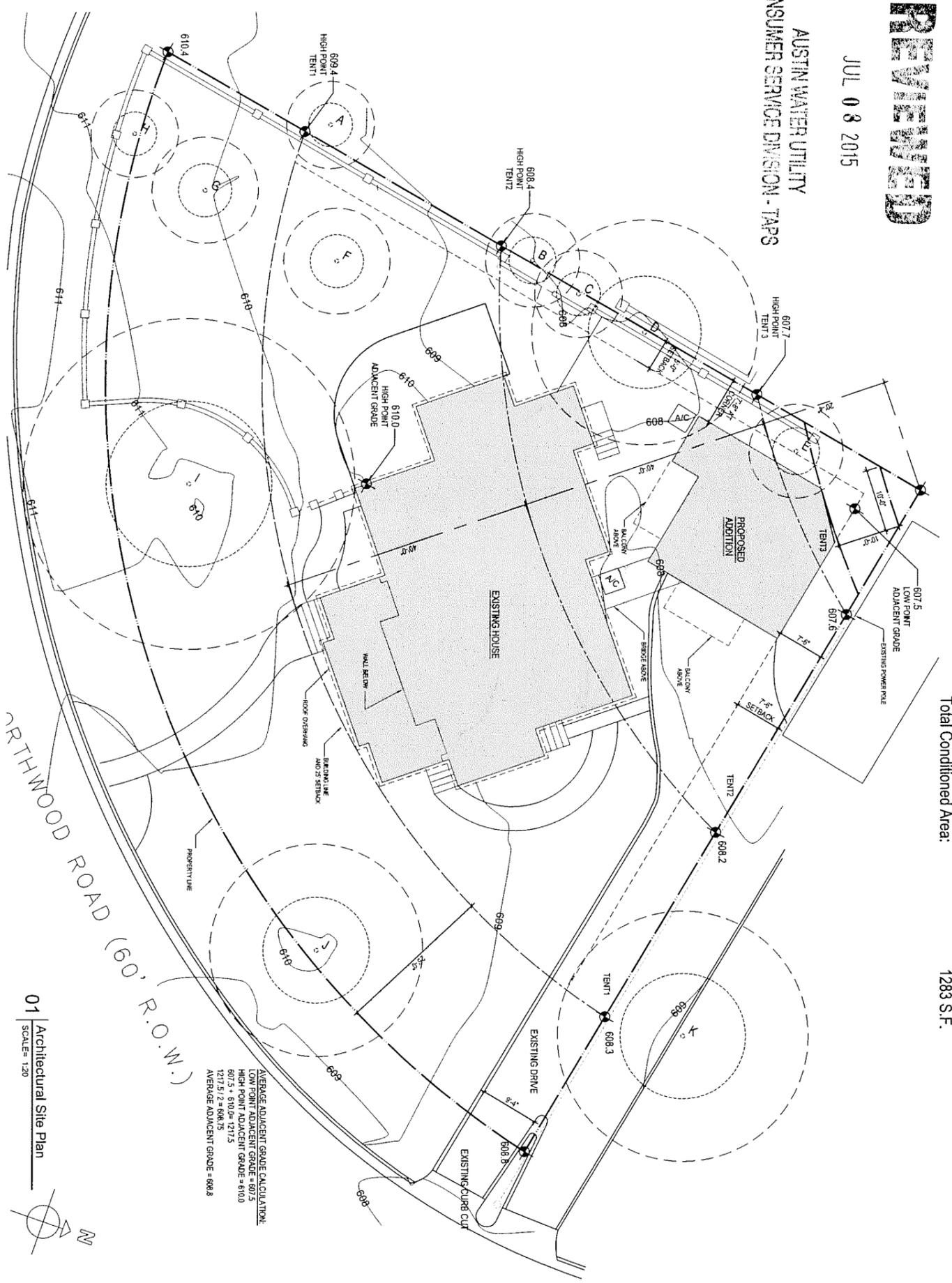
First Floor Conditioned Area: 616 S.F.

Second Floor Conditioned Area: 667 S.F.

Total Conditioned Area: 1283 S.F.

DRAWING INDEX

A1.0	Architectural Site Plan & Project Information
A2.1	1st Floor Plans
A2.2	2nd Floor Plans
A2.3	Roof & Power Plan - Addition
A2.4	Roof Plans
A3.1	Exterior Elevations - Addition
A3.2	Exterior Elevations - Existing
A3.3	Exterior Elevations - Existing
A3.4	Exterior Elevations - Existing



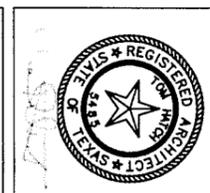
01 Architectural Site Plan
 SCALE = 1/2" = 1'-0"

AVERAGE ADJACENT GRADE CALCULATION:
 LOW POINT ADJACENT GRADE = 607.5
 HIGH POINT ADJACENT GRADE = 610.0
 607.5 + 610.0 = 1217.5
 1217.5 / 2 = 608.75
 AVERAGE ADJACENT GRADE = 608.8

A1.0
 Architectural Site Plan & Project Information

ISSUE DATES:

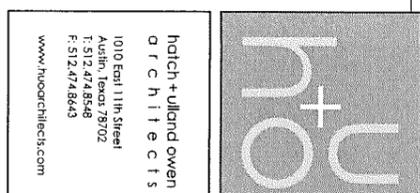
NO.	DATE	DESCRIPTION
1	5/22/15	PERMIT



HURD RESIDENCE ADDITION
 1300 NORTHWOOD RD.
 AUSTIN, TEXAS 78703

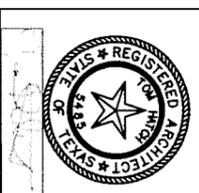
PRELIMINARY DRAWINGS. NOT FOR BIDDING, PERMITTING OR CONSTRUCTION PURPOSES.
 TOM HATCH, FAIA
 REGISTRATION #5485

hatch + jordan owen architects
 1010 East 11th Street
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 www.hatchjordan.com



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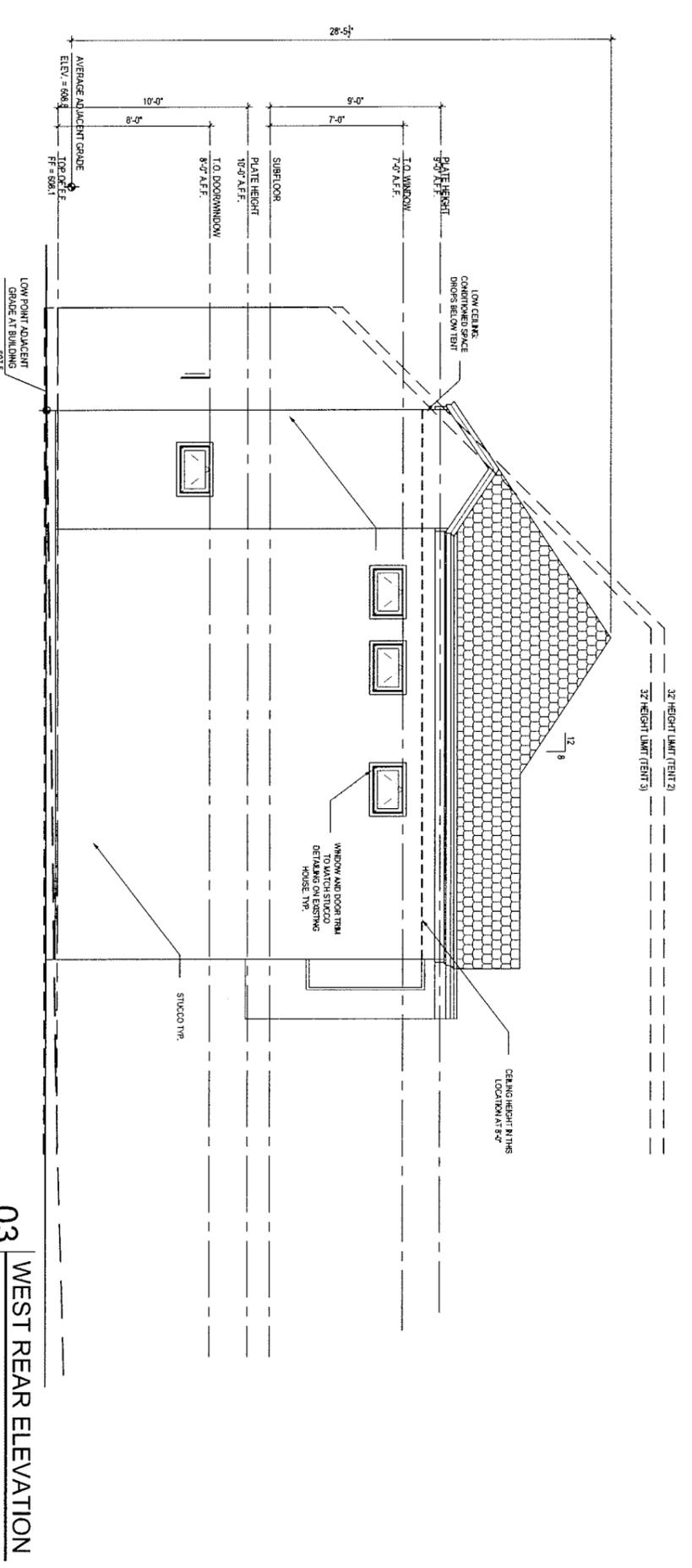
NOTE: The use of materials is left to the discretion of the contractor and the architect and all subcontractors and material suppliers are responsible for obtaining the necessary permits and approvals for the use of such materials and for the safety of the work. The architect and contractor shall be responsible for all applicable codes and regulations.



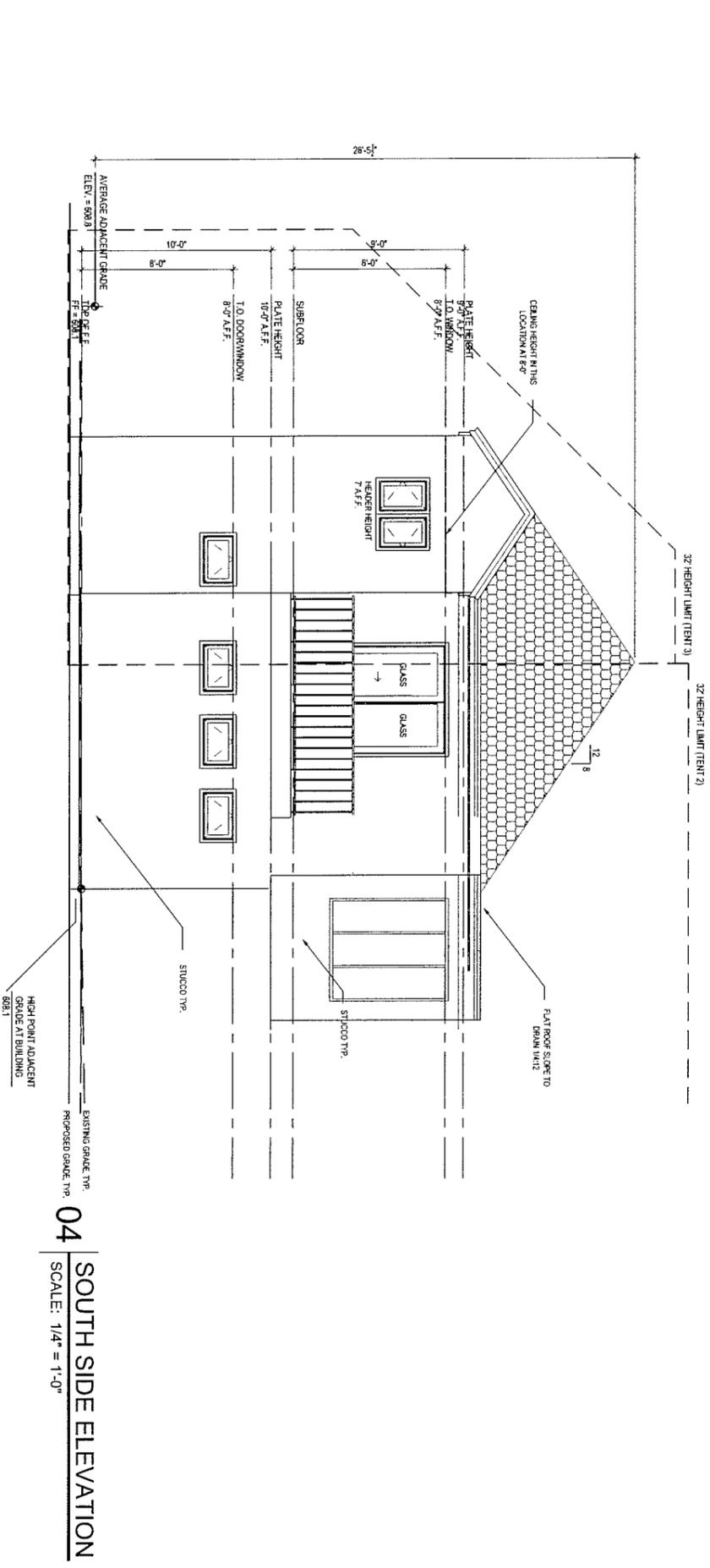
ISSUE DATES:

10/22/15	PERMIT

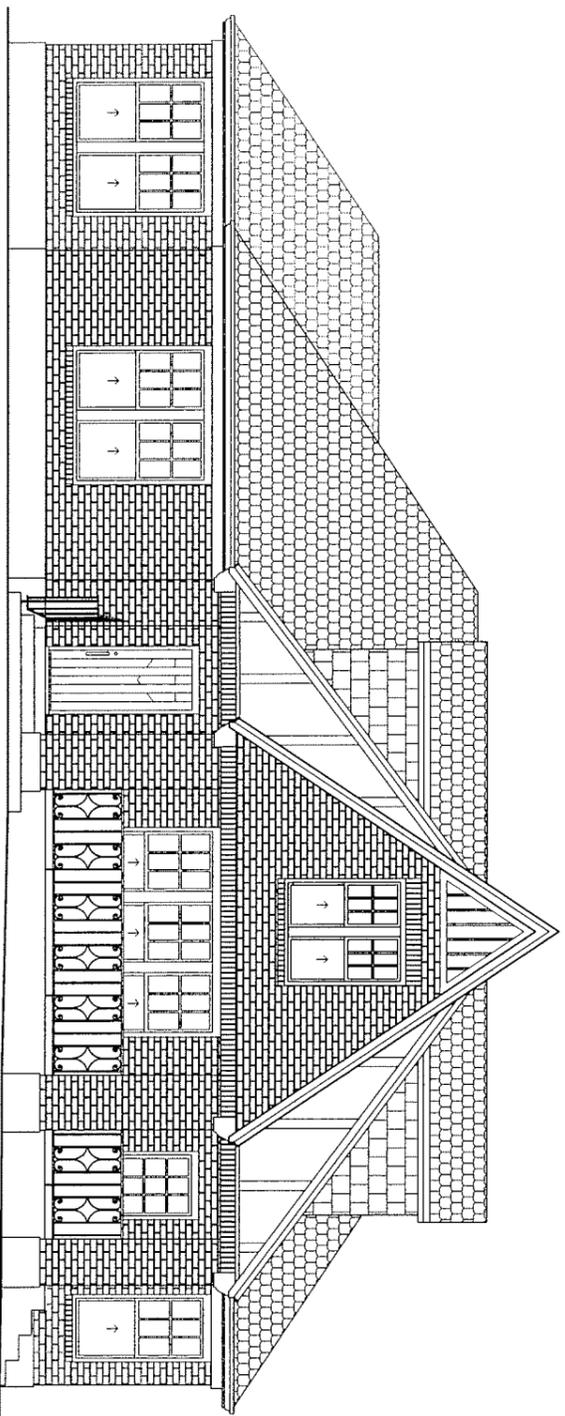
Exterior Elevations - Addition



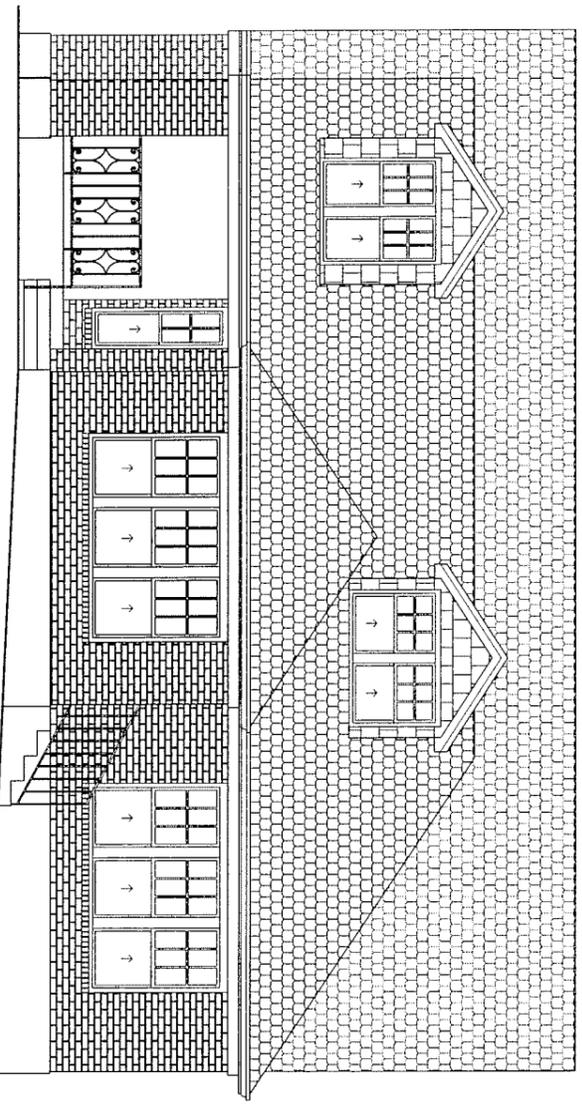
03 WEST REAR ELEVATION
SCALE: 1/4" = 1'-0"



04 SOUTH SIDE ELEVATION
SCALE: 1/4" = 1'-0"

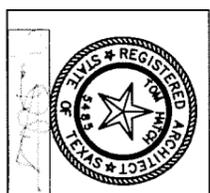


01 FRONT SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



02 EAST SIDE ELEVATION
SCALE: 1/8" = 1'-0"

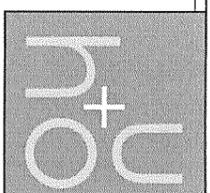
NOTE: The Architect shall not be responsible for the accuracy of the information provided by third parties. The Architect shall not be responsible for the accuracy of the information provided by third parties. The Architect shall not be responsible for the accuracy of the information provided by third parties.



ISSUE DATES	PERMIT
5/22/15	

Exterior Elevations - Existing

A3.3

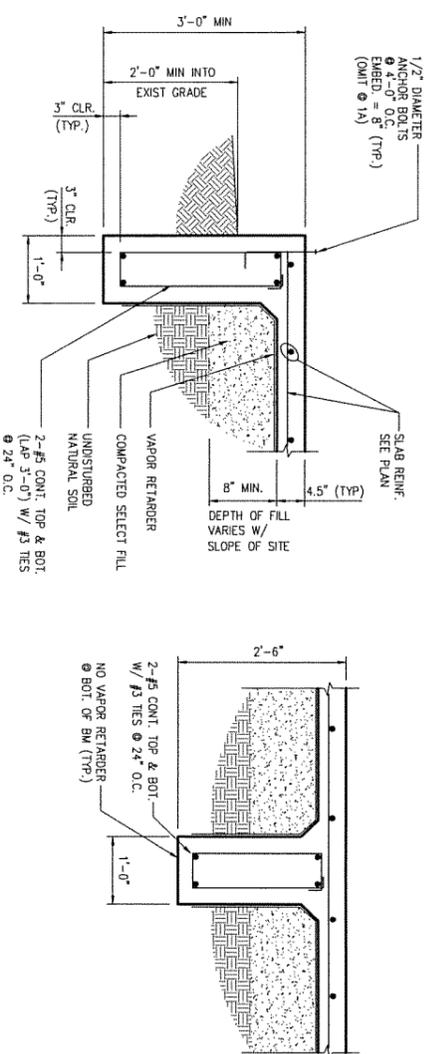


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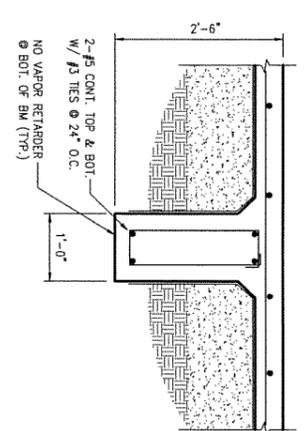
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PURPOSES.
TOM HATCH, FAIA
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**HURD RESIDENCE
ADDITION**
1300 NORTHWOOD RD.
AUSTIN, TEXAS 78703

DETAILS SCALE TO 3/8" = 1'-0" IN 11X17 SHEET

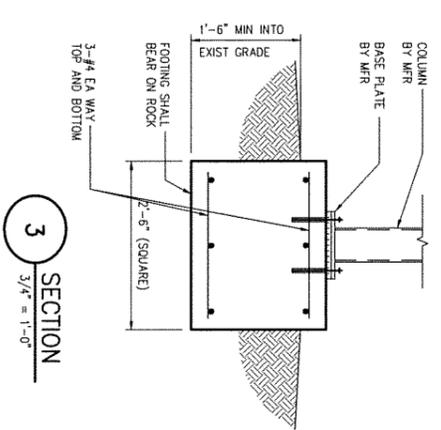


1A SECTION
3/4" = 1'-0"

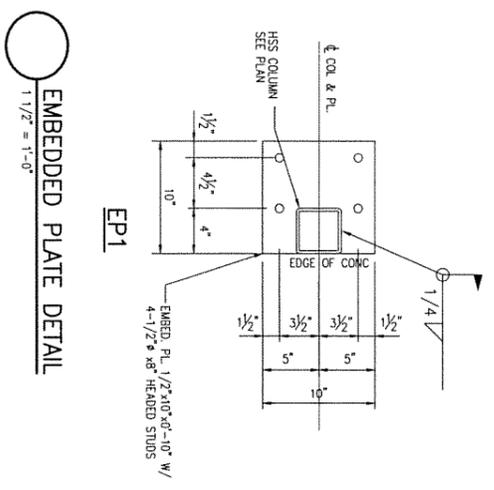


2 SECTION
3/4" = 1'-0"

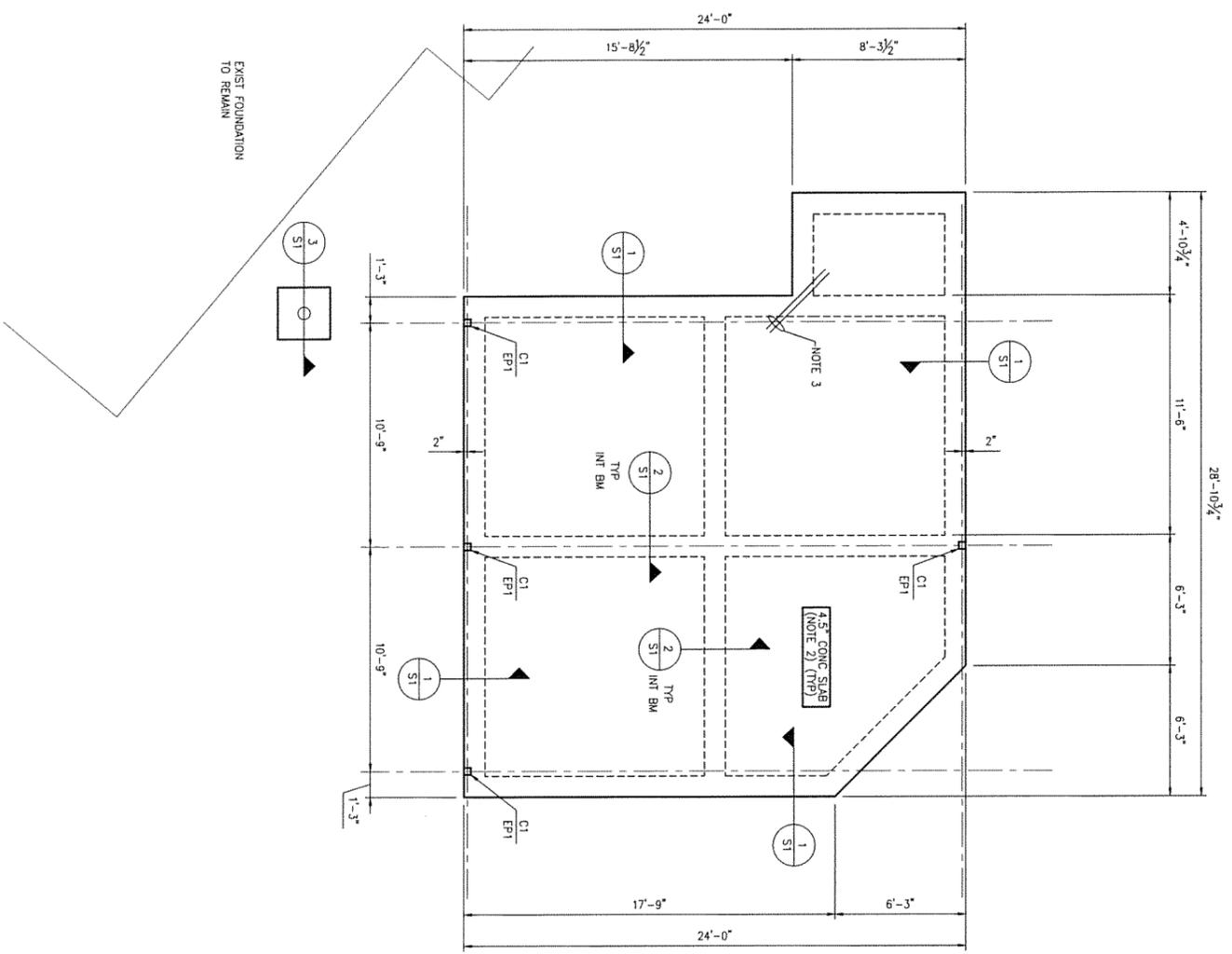
NOTE: SEE 1/THIS SHEET FOR INFORMATION NOT SHOWN.



3 SECTION
3/4" = 1'-0"



EMBEDDED PLATE DETAIL
1 1/2" = 1'-0"



FOUNDATION PLAN

1/4" = 1'-0" N 22x34
1/8" = 1'-0" N 11x17

- PLAN NOTES:**
1. STEREOPLASTIC SLAB DROPS W/ ARCHITECTURAL DRAWINGS PRIOR TO STARTING WORK.
 2. 4.5" SLAB OVER VAPOR RETARDER OVER COMPACTED STRUCTURAL FILL. REINFORCING #3 @ 12" O.C. E.W. AT MID DEPTH. SEE NOTES FOR STRUCTURAL FILL REQUIREMENTS.
 3. 2'-3/4" CORNER BARS - TYPICAL AT ALL RE-ENTRANT CORNERS.
 4. C1 = HSS4x4x1/4 COLUMN. EP = EMBED PLATE - SEE DETAILS.

BUILDING PAD PREPARATION

1. Structural fill material shall consist of crushed limestone base material with the gradation as follows:

Retained on 2-1/2" screen	0%
Retained on 1-1/2" screen	0% - 25%
Retained on 3/4" screen	15% - 55%
Retained on 3/8" screen	45% - 85%
Retained on No. 40 mesh sieve	60% - 90%
2. Prior to placing fill material, remove all organic and other deleterious material from the existing subgrade for a distance of 2'-0" beyond building line. All exposed surfaces shall then be recompact to a minimum of 95% relative compaction. All exposed surfaces shall then be recompact to a minimum of 11%-E of a moisture content within 3 percent of the optimum moisture content.
3. Structure fill shall be placed in 8 inch loose lifts, watered or reworked and compacted to a minimum of 95% relative compaction. All exposed surfaces shall then be recompact to a minimum of 11%-E of a moisture content within 3 percent of the optimum moisture content.
4. Provide a 10 mil polyethylene vapor retarder. Place vapor barrier in accordance with manufacturer's recommendation on top of structural fill.

CAST-IN-PLACE CONCRETE

1. Cast in place concrete shall meet the following requirements:

28 Day Aggregate	Slump	Ultr
Class Strength	C 33 1"	4" to 6"
3000 psi		Slab-on-grade & grade beams

 The use of fly ash is recommended, but shall not exceed 25% of the total of the cement plus fly ash by weight.

CONCRETE REINFORCING

1. Reinforcing steel shall be deformed new sheet steel bars in accordance with ASTM A615 Grade 60.
2. Detailing of reinforcing steel shall conform to the American Concrete Institute Detailing Manual.
3. Provide 2-#4 bent bar with 2'-0" long top and bottom in exterior face of grade beams at corners and top and bottom in exterior face of grade beam at intersections.
4. All hooks and bends in reinforcing bars shall conform to ACI detailing standards unless shown otherwise.
5. Welding of reinforcing steel will not be permitted.
6. Heat shall not be used in the fabrication or installation of reinforcement.
7. Reinforcing steel clear cover shall be as follows:
 - a. Grade beams - 1 1/2" top, 3" bottom, 2" side (formed), 3" side (placed against curb)

Zhigang Zhang
06/29/2015

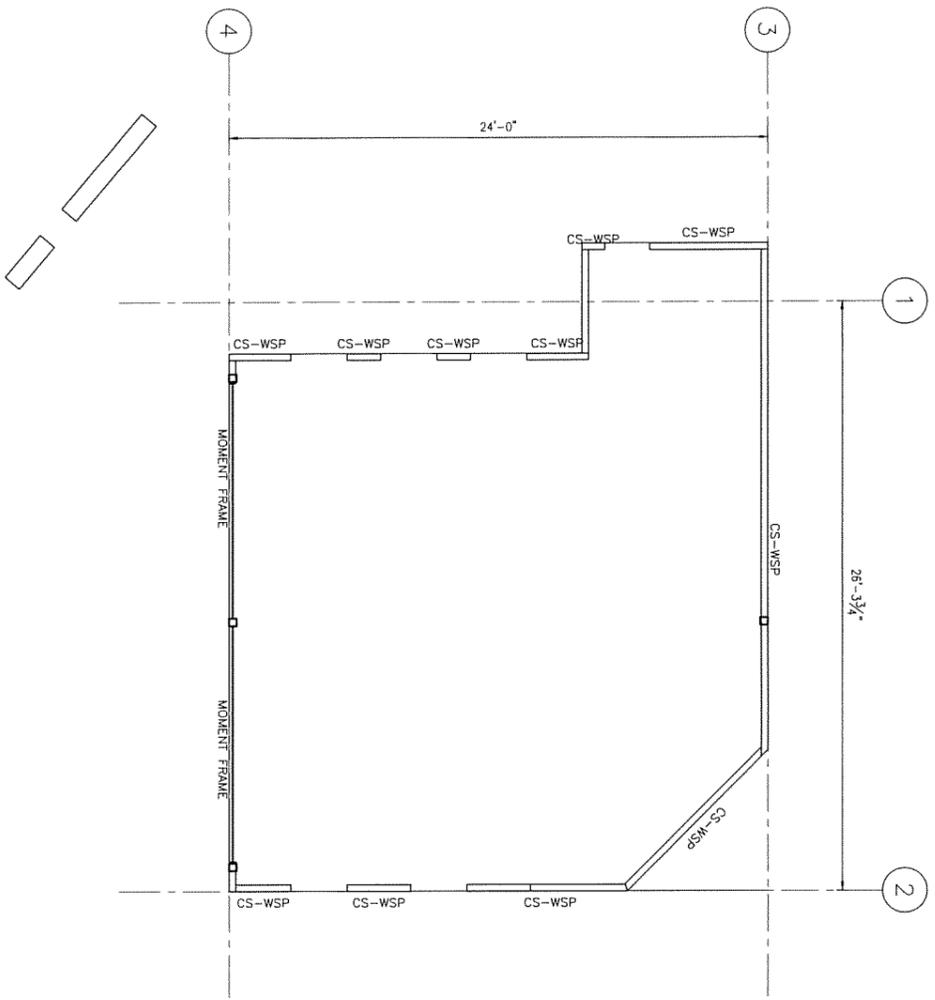
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STRUCTURAL CONSULTING ENGINEERS
2500 WEST WILLIAM CANNON DR., #201 AUSTIN, TX 78745
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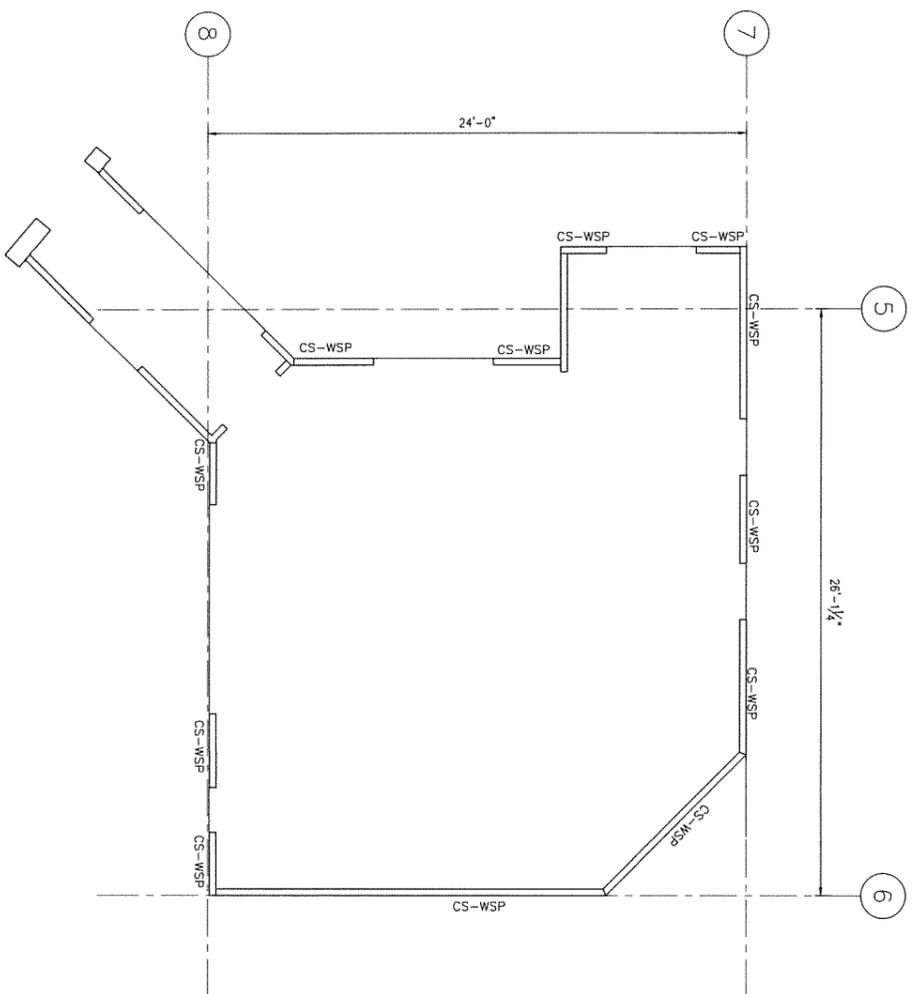


REV.	DATE

SHEET NO.
S1
OF



1ST FLOOR WALL BRACING PLAN
 1/4" = 1'-0" IN 22x34
 1/8" = 1'-0" IN 11x17



2ND FLOOR WALL BRACING PLAN
 1/4" = 1'-0" IN 22x34
 1/8" = 1'-0" IN 11x17

BRACE WALL LINE DATA				
BWL	STORY	BWL SPACING (FEET)	REQUIRED LENGTH (FT)	PROVIDED LENGTH (FT)
1	1 OF 2	26	8.5	12+
2	1 OF 2	26	8.5	12+
3	1 OF 2	24	7	12+
4	1 OF 2	24	7	MOMENT FRAME
5	2 OF 2	26	5	8+
6	2 OF 2	26	5	8+
7	2 OF 2	24	4	8+
8	2 OF 2	24	4	8+

LEGENDS: BWL = BRACED WALL LINE; CS-WSP = CONTINUOUS SHEATHED WOOD STRUCTURAL PANEL;
 GB = GYPSUM BOARD; CS-PF = CONTINUOUS SHEATHED PORTAL FRAME.

- BRACED WALL LINE DATA BASED ON SEISMIC DESIGN CATEGORY A AND A WIND SPEED OF 90 MPH OR LESS.
- MAXIMUM BWL SPACING SHALL NOT EXCEED 60 FEET O.C.:
- WOOD STRUCTURAL PANEL SHALL BE 1/2" OSB (OR PLYWOOD) SHEATHING AND SHALL BE FASTENED WITH 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE FRAMING.
- ALL HORIZONTAL PANEL SPLICES SHALL BE BLOCKED WITH BLOCKING EQUAL TO WALL STUD SIZE AND SHALL BE FASTENED WITH 8d COMMON NAILS @ 6" O.C.
- THE FLOOR DECK SHALL BE 3/4" MIN OSB OR PLYWOOD DECK AND SHALL BE FASTENED WITH 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE FRAMING.
- THE ROOF DECK SHALL BE 5/8" MIN OSB OR PLYWOOD DECK AND SHALL BE FASTENED WITH 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE FRAMING.
- GYPSUM BOARD SHALL BE 1/2" THICK AND SHALL BE FASTENED WITH 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE FRAMING.

Zhigang Zhang
 06/29/2015

HURD RESIDENCE
 1300 NORTHWOOD ROAD

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 GE JOB NO.: 15096



SHEET NO.
S2.2

REV.	DATE

CHK. BY: TZ
 DRWN. BY: BB
 DATE: 06/29/2015

STRUCTURAL GENERAL NOTES

CODES

1. Building Code 2012 International Residential Code.
2. Wood Framing National Design Specifications For Wood Construction with Supplement, National Forest and Paper Products Association, Latest Edition.
3. Structural Plywood: Plywood Design Specification, American Plywood Association, Latest Edition.
4. Prefabricated Metal Plate Connected Wood Trusses: Design Standard for Metal Plate Connected Wood Truss Construction, AISI/PTI 1-95.

DESIGN LOADS

1. Live Loads
- a. Roof 20 psf
- b. Floor 40 psf
- c. Stair 40 psf

TIMBER FRAMING

1. Unless otherwise noted, all structural framing lumber shall be clearly marked no. 2 southern yellow pine or Douglas fir, except that non-loadbearing interior walls may be stud grade southern yellow pine, douglas fir, or spruce-pine-fir.
2. All wood headers, beams, and top plates shall be no. 2 Southern Yellow Pine or Douglas Fir.
3. All load bearing walls shall have solid 2x blocking at 4'-0" o.c. maximum vertically. End nail with 2-16d nails or side toe nail with 2-16d nails.
4. Provide double studs at all wall corners and on each side of all openings, unless noted or detailed otherwise.
5. The entire exterior wall framing shall be braced by a 1/2" thick panel of APA rated sheathing with an exposure 1 rating extending from the sill plate to the top plate. Where wall is taller than 8'-0" provide multiple panels as required to extend from sill plate to top plate. Provide 2x blocking as required to support all panel edges. Nail with 8d common nails at 6" on center of supported edges and 12" on center of intermediate supports.
6. Solid 2x blocking or bandboard shall be provided at supports and cantilever ends of all wood joists, and between supports in rows not exceeding 8'-0" apart.
7. All framing members forming into the side of a header, hip, valley, ridge, beam or any other beam shall be attached using metal joint hangers manufactured by the Simpson Company or equal. The hanger shall be sized and installed in accordance with the manufacturer's recommendations for the size of joint supported.
8. Nailing and attachment of all framing members and sheathing shall be as specified in the International Residential Code Nailing Schedule (Table R602.3) unless noted otherwise in the drawings. Simpson tie rods, spacers, or grommets for tie rods shall be used for all framing unless noted otherwise.
9. Place a single plate at the bottom end and double plate at the top of all stud walls. Exterior sill plates shall be 4x6 treated lumber. All interior walls shall be 2x4 studs with 1/2" thick panels of APA rated sheathing with an exposure 1 rating. Provide a minimum of two bolts per plate segment. Sill plates in contact with concrete or masonry shall be pressure treated with a preservative.
10. Provide double joists under all interior partition walls oriented parallel to the joists.
11. Provide triple studs (or cripples) at each end of any header, beam, ridge, valley, or hip spanning over 10'-0" unless noted otherwise. Provide double studs (or cripples) at each end of any header, beam, ridge, valley, or hip spanning 5'-0" to 10'-0" unless noted otherwise.
12. The new generation of pressure treated lumber products are highly corrosive to metal connectors and fasteners. All fasteners and metal connectors used in conjunction with the new generation of pressure treated lumber shall be hot-dip galvanized or stainless steel. These locations include, but are not limited to the following:
 - Anchor bolts at sole plate to foundation.
 - Nails from sole plate to wall studs.
 - Nails from floor joists to wall studs.
 - Joist to ledger to concrete.
 - Joist to treated ledger connections.
 - All hangers on treated joists.
 - Deck board to treated joists.

PREFABRICATED METAL PLATE CONNECTED WOOD TRUSSES

1. Trusses shall be designed by the Contractor in accordance with the Truss Plate Institute "Design Standard for Metal Plate Connected Wood Truss Construction" (ANSI/PTI 1-95).
2. Truss members shall be designed in a mechanical or hydraulic fit with sufficient pressure to bring members into reasonable contact at all joints during application of connector plates.
3. Provide adequate erection bracing in accordance with Truss Plate Institute publication HB-91.
4. Truss Manufacturer shall provide permanent bracing as required by the design of the trusses. Erection bracing may remain in place on permanent bracing where it does not interfere with the architectural finishes.
5. All timber truss members shall be Southern Yellow Pine, with a maximum moisture content of 15% Chord members shall be no. 2 or better and web members shall be no. 3 or better.
6. Connector plates shall be manufactured by a PTCA member plate manufacturer. Plates shall be 20 gauge minimum, ASTM A594 grade A steel, with a 95% galvanized coating.
7. Trusses shall be designed in accordance with the following requirements:
 - a. Top chords shall be designed to resist the local bending induced by the floor or roof uniform load on the top chord.
 - b. Limit live load deflection of floor trusses to L/480. Total load deflections shall be limited to L/360.

COMPOSITE WOOD MEMBERS

1. Where noted on the drawings, joists shall be 12" Spc" series engineered wood joists, and beams shall be "Micro-Lam" or "Trivalent" beams as manufactured by the Trus Joist Manufacturer Corporation.
2. Do not notch joists or beams. Drill holes through webs of engineered wood members for mechanical, electrical or plumbing services in accordance with the recommendations of the engineered wood product manufacturer.
3. Multiple wood beams up to three members thick shall be nailed together with three rows of 16d nails at 12" on center. Four or more multiple wood beams and any multiple wood beams utilizing beams thicker than 1 3/4" shall be bolted together with 1/2" diameter bolts top and bottom of supports and ends of the beam, then at 24" on center, staggered top and bottom for the full length of the beam.
4. Where multiples of two 1 3/4" Micro-Lam beams are noted on the drawings, contractor may provide single 3 1/2" beams in lieu of double 1 3/4" beams.
5. Provide web stiffeners where required by the manufacturer for the specified support condition.

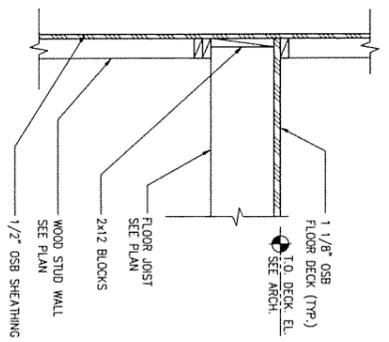
STRUCTURAL STEEL

1. Structural Steel members shall conform to ASTM A592. Steel plates, angles and channels may be ASTM A572 grade 50 or ASTM A36. Steel pipe shall conform to ASTM A501 or ASTM A53, Type E or S, grade B. Steel tube shall conform to ASTM A500, grade B, Fy 46 ksi.
2. Column base plates shall be provided with a non-slip, high strength non-solvent grade, fire-retardant of column base plates will NOT be permitted.
3. Spacing of structural steel members is prohibited without prior approval of the Engineer as to location and type of splices to be made. Any member having splices not shown and detailed on shop drawings will be rejected.

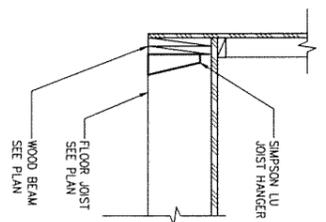
STRUCTURAL STEEL CONNECTIONS

1. Welding shall conform to AWS/AAS D1.1, latest edition.
2. Bolts shall conform to ASTM A325. Bolts shall be designed using values for bearing type bolts with threads shown in the shop plans.

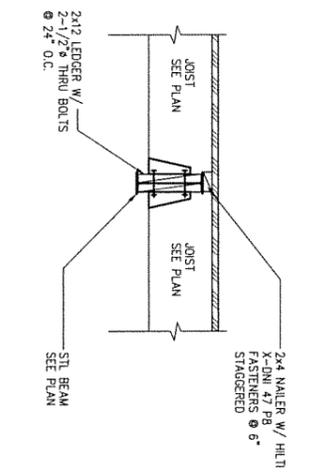
DETAILS SCALE TO 3/8" = 1'-0" IN 11X17 SHEET



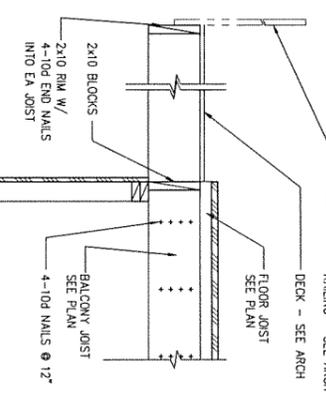
1 SECTION
3/4" = 1'-0"



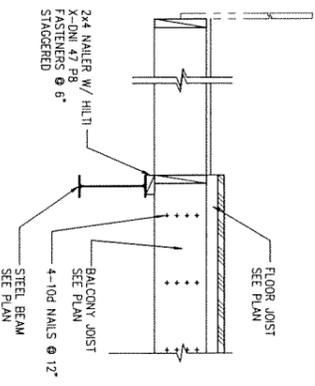
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3/4" = 1'-0"



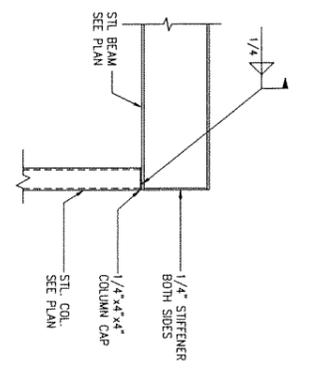
3 SECTION
3/4" = 1'-0"



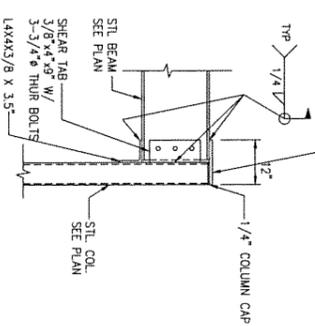
4 SECTION
3/4" = 1'-0"



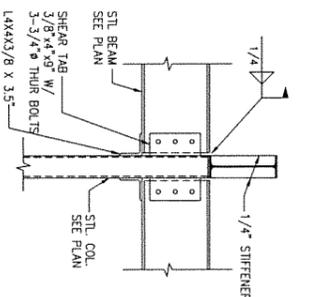
5 SECTION
3/4" = 1'-0"



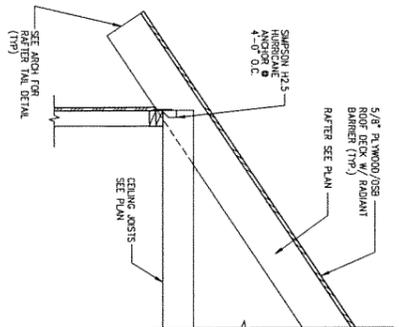
6 TYPICAL DETAIL
3/4" = 1'-0"
I-BEAM OVER HSS COL. CONN. NOT TO SCALE



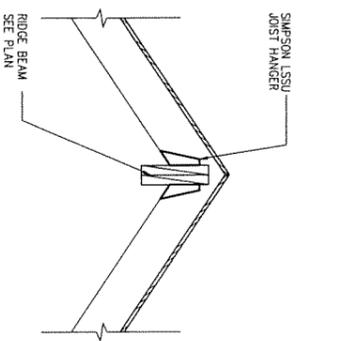
7 TYPICAL DETAIL
3/4" = 1'-0"
I-BEAM TO HSS COL. MOMENT CONN. NOT TO SCALE



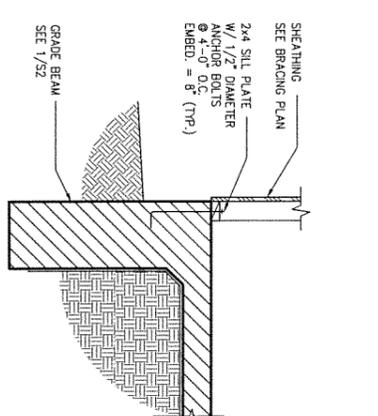
8 DETAIL
3/4" = 1'-0"
NOT TO SCALE



9 SECTION
3/4" = 1'-0"



10 SECTION
3/4" = 1'-0"



11 SECTION
3/4" = 1'-0"
TYPICAL CONNECTION DETAIL BETWEEN EXTERIOR WALL & FOUNDATION

Zhigang Zhang
06/29/2015

HURD RESIDENCE
1300 NORTHWOOD ROAD

GREENEARTH ENGINEERING, INC.
STRUCTURAL CONSULTING ENGINEERS
2500 WEST WILLIAM CANNON DR. #201 AUSTIN, TX 78745
PHONE (512) 289-8088 FAX (512) 462-0800
GE JOB NO.: 15036



REV.	DATE

CHK. BY: TZ
DWGN. BY: BB
DATE: 06/29/2012

SHEET NO.
S3
01

FRONT OF HOUSE





WEST SIDE OF HOUSE



WEST SIDE OF HOUSE CONT'D



BACK OF HOUSE- 2ND FLOOR
WINDOW/ PORTION OF WALL TO
BE DEMO'D FOR BRIDGE
CONNECTION



BACK OF HOUSE CONT'D



EAST SIDE OF HOUSE



VIEW OF DETACHED GARAGE TO BE DEMO'D IN RELATION TO HOUSE



Pilates Barn

FRONT OF GARAGE TO BE DEMO'D



WEST SIDE OF GARAGE TO BE DEMO'D



BACK OF GARAGE TO BE DEMO'D



EAST SIDE OF GARAGE
TO BE DEMO'D